

# **KY Valid Course List Agricultural Education Program Area**

## HOW TO USE THIS DOCUMENT

This document contains a listing of course descriptions and parameters along with certifications that fit the parameters for a given course. The grade range and population information listed for each course are not absolute. Please choose the course that most closely represents the students in a given course.

### EXAMPLE

John Q Middle School had 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup> grade students taking a Creative Art course. This course would be linked to course number **500711: Creative Art – Comprehensive**, which shows with a recommended grade range of 6<sup>th</sup> – 12<sup>th</sup>.

The courses listed in this document are not meant to replace the course titles and course numbers already in use at the school level. Schools will link their courses in the STI Valid Course List to courses listed in this document.

Schools may have created courses that are very unique in order to meet students' needs. If a course does not meet the definition or content of one contained in this document, please use course number **909999: School Defined Course**, and code the correct content through the LEAD report.

## CERTIFICATIONS

It is important to note that the certificates listed are the ones that fit *ALL* of the parameters for a specific course – there may be other certificates that can teach it with slightly more restrictive parameters.

It is very important to note that not all of the certificates listed under a specific course will meet the Highly Qualified Teacher standards as defined by The No Child Left Behind Act of 2001. Please refer to the Highly Qualified guidance documents located on the Education Professional Standards Board (EPSB) website at <http://www.kyepsb.net/nclb.asp>.

In addition to Highly Qualified considerations, please take note of the following information from ***The Program of Studies for Kentucky Schools Primary-12*** with regard to middle school courses that are offered for high school credit.

### High School Credit Earned in Middle School

It is expected that most students will earn these credits during their high school years. However, local school districts may offer these courses to middle level students if the following criteria are met:

- the content and the rigor of the course is the same as established in the *Program of Studies*
- the students demonstrate mastery of the middle level content as specified in the *Program of Studies*
- the district has criteria in place to make reasonable determination that the middle level student is capable of success in the high school course
- **the middle level course is taught by teachers with either secondary or middle level certification with appropriate content specialization**

Although middle level courses list the Provisional and Standard Elementary Certificates, Grades 1-8 as allowable under the parameters of these courses, they will not meet the above requirements for courses that are offered for high school credit.

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Please contact Robin Chandler in KDE's Division of Curriculum at 502-564-2106 with any questions on content and curricula.

Please contact EPSB's Division of Certification at 502-564-4606 with any questions on credentials or permissions.

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# **Agricultural Education Program Area (010000)**

This program area consists of courses that prepare students for successful careers and a life time of informed choices in the global food, fiber, and natural resources system.

# Agriculture - Agribusiness (010100)

Career Major- A group of courses that prepare individuals in agribusiness, including applying scientific methods and skills of finance, management practices, marketing, economics accounting taxes, business principles, inventory, and personal management. Any course not found under this career major/sub code, may be found in another career major/sub code within this program area.

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## 010101 - Advanced Agriculture Economics & Agribiology Management

**Grade Level:** 10 - 12

**Credits:** 1

**Description:** A dual credit course for high school and college credit that describes the theories, principles of sound business and economic practices, including marketing, finance, record keeping, inventories, personal management, tax laws, labor management, future trading, etc.

**Content:** Agriculture

**Population:** General

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## 010102 - Special Topics, Agribusiness

**Grade Level:** 9 - 12

**Credits:** 1-3

**Description:** Instruction related to Agri-business but not described in above courses.

**Content:** Agriculture

**Population:** General

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## 010111 - Agriculture Sales & Marketing

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes theories, principles of sound sales and marketing practices including customer relations, displays, advertising, marketing plans, etc.

**Content:** Agriculture

**Population:** General

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## 010121 - Agriculture Employability Skills

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes theories, principles and the application of sound employability skills, including writing resumes, job interview skills, competing applications, dress, appearance, communication skills, etc.

**Content:** Agriculture

**Population:** General

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## 010131 - Agribusiness/Farm Management

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles and the application of farm and business management principles including marketing, financial management, economics, record keeping, inventories, futures trading, labor management, etc.

**Content:** Agriculture

**Population:** General

# Agriculture - Ag Mechanics/Engineering (010200)

Career Major- A group of courses that prepare individuals for mechanics and engineering for Agriculture, including design, construction, operation, maintenance, repair, sales and service and marketing machinery, equipment and structures. Any course not found under this career major/sub code, may be found in another career major/sub code within this program area.

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## 010211 - Agriculture Structures & Design

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes theories, principles, the application of design and construction of agriculture structures. Includes principles of carpentry, electricity, plumbing, reading blueprints, use and care of tools, safety, etc.

**Content:** Agriculture

**Population:** General

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## 010212 - Agriculture Power & Machinery Operation

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles and the application of operating, repairing, and maintaining agriculture machinery and equipment. Includes principles of engines, hydraulics, welding, electricity, motor, and safety.

**Content:** Agriculture

**Population:** General

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## 010231 - Small Power & Equipment

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes theories, principles, and the application of operating, repairing, maintaining of power equipment and small engines. Includes welding, sales, marketing and safety.

**Content:** Agriculture

**Population:** General

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## 010241 - Agriculture Construction Skills

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles, and the application of construction of Agricultural related. Includes principles of carpentry, electricity, plumbing, material selection, use and care of tools, safety, etc

**Content:** Agriculture  
**Population:** General

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## **010252 - Special Topics, Ag Mechanics/Engineering**

**Grade Level:** 9 - 12

**Credits:** 1-3

**Description:** Instruction related to Ag Mechanics/Engineering but not described in above courses.

**Content:** Agriculture

**Population:** General



# Agriculture - Horticulture (010600)

Career Major- A group of courses that prepare individuals in producing, processing, and marketing plants for ornamental, recreational, and aesthetic purposes and to maintain and manage horticulture enterprises. Introduces the theory, principles and science of horticulture. Any course not found under this career major/sub code, may be found in another career major/sub code within this program area.

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## 010621 - Floriculture & Floral Design

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles and the science of floral production, design and distribution.

**Content:** Agriculture

**Population:** General

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## 010631 - Landscape & Turf Management

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles and the science of Landscaping and Turf Management. Includes design and drawing, choosing plant materials, maintenance, marketing, etc.

**Content:** Agriculture

**Population:** General

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## 010641 - Greenhouse Technology

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles and the science of producing plants and crops within the greenhouse environment. Includes propagation, fertilization, control of pests, marketing, etc.

**Content:** Agriculture

**Population:** General

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## 010651 - Nursery & Orchard Technology

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes theories, principles and the science of producing ornamental plants, fruit and nut plants and vegetable production. Includes propagation, nutrition, cultural practices, harvesting, marketing, etc.

**Content:** Agriculture

**Population:** General

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## 010652 - Special Topics, Horticulture

**Grade Level:** 9 - 12

**Credits:** 1-3

**Description:** Instruction related to Horticulture but not described in above courses.

**Content:** Agriculture

**Population:** General

# Agriculture - Agriscience (020100)

Career Major- A group of courses that describe the theories, principles, and science content of agricultural/life sciences, as related to the food, fiber, & natural resource industries of Agriculture. Also, this career major prepares students for careers in Agriscience, such as Bio-Technology, Veterinary Science, Food Science, Genetics, etc. Any course not found under this career major/sub code, may be found in another career major/sub code within this program area.

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## 020101 - Agriscience Interdisciplinary

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** An interdisciplinary course that counts for Life Science credit for high school graduation. Teaches science through use of agricultural concepts.

**Content:** Agriscience for Life Science Credit

**Population:** General

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## 020116 - Agri-biology Interdisciplinary

**Grade Level:** 10 - 12

**Credits:** 1

**Description:** An interdisciplinary course that counts for Life Science credit for high school graduation. Teaches biology through use of Agricultural concepts.

**Content:** Agribiology for Life Science Credit

**Population:** General

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## 020152 - Special Topics, Agriscience

**Grade Level:** 9 - 12

**Credits:** 1-3

**Description:** Instruction related to Veterinary Science but not described in above courses.

**Content:** Agriculture

**Population:** General

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## 020160 - Veterinary Science

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** This course introduces students to the field of veterinary science. Major topics include veterinary terminology, safety/sanitation, anatomy/physiology, clinical exam, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management & animal management. Careers are also explored.

**Content:** Agriculture

**Population:** General

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## 020170 - Food Technology

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course describing the science, principles, and practices involved in converting agricultural products into forms suitable for human consumption.

**Content:** Agriculture

**Population:** General

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## **020180 - Agri-Biotechnology**

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes the theories, principles, and science of high-tech agricultural/life science such as genetics, tissue culture, DNA extraction, cloning, etc.

**Content:** Agriculture

**Population:** General

# Agriculture - Production (020200)

Career Major- A group of courses that describe the theories, principles and science of livestock production. Also, prepares students for careers in livestock production. Any course not found under this career major/sub code, may be found in another career major/sub code within this program area.

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## 020201 - Advanced Animal Science

**Grade Level:** 10 - 12

**Credits:** 1

**Description:** A dual credit course for high school and college credit that describes the theories, principles, and science of animal production.

**Content:** Agriculture

**Population:** General

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## 020211 - Animal Science

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes the theories, principles and science of animals and animal products, including nutrition, disease, management, etc

**Content:** Agriculture

**Population:** General

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## 020212 - Animal Technology

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes the theories, principles and science of animals, including nutrition, reproduction, health, management, etc.

**Content:** Agriculture

**Population:** General

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## 020221 - Plant, Land Science

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes the theories, principles, and science of Agronomy.

**Content:** Agriculture

**Population:** General

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## 020222 - Advanced Plant Science

**Grade Level:** 10 - 12

**Credits:** 1

**Description:** A dual credit course for high school and college credit that describes the theories, principles, and science of Agronomy.

**Content:** Agriculture

**Population:** General

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## 020223 - Crop Technology

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes the theories, principles, and science of crop production.

**Content:** Agriculture

**Population:** General

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## 020252 - Special Topics, Production

**Grade Level:** 9 - 12

**Credits:** 1-3

**Description:** Instruction related to Production but not described in above courses.

**Content:** Agriculture

**Population:** General

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## 020261 - Equine Science

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes the theories, principles and science of horse production and management.

**Content:** Agriculture

**Population:** General

# Agriculture - Forestry/Resource Management (030500)

Career Major- A group of courses that prepare individuals for careers involving conserving, improving and using natural resources such as air, water, soil, trees, wildlife, and recreation areas. Describe the theories, principles and science of natural resources. Any course not found under this career major/sub code, may be found in another career major/sub code within this program area.

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## 030511 - Forestry

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course describing theories, principles and science of managing, preserving, maintaining, utilizing and harvesting forest assets and forest products.- Study of silviculture practices.

**Content:** Agriculture

**Population:** General

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## 030512 - Environmental Technology

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course describing theories, principles and science of managing, protecting and utilizing natural resources and the environment, including land, air, water, wildlife, trees, etc.

**Content:** Agriculture

**Population:** General

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## 030520 - Special Topics, Forestry/Resource Management

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** Instruction related to Forestry/Resource Management but not described in above courses.

**Content:** Agriculture

**Population:** General

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## 030602 - Advanced Wildlife Management

**Grade Level:** 10 - 12

**Credits:** 1

**Description:** A dual credit course for high school and college credit that describes theories, principles and science of producing, managing, preserving, and improving wildlife resources, including habitat management, harvesting, marketing, etc.

**Content:** Agriculture

**Population:** General

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## 030611 - Wildlife Resources

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course describing theories, principles and science of producing, managing, preserving and improving wildlife resources, including habitat management, harvesting marketing, etc.

**Content:** Agriculture

**Population:** General



# Agriculture - Career Major Electives (030700)

Courses not falling into one of the other career majors/sub codes

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## 030701 - Aquaculture

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course describing theories, principles and science of producing fish, sea food, etc, including growth, nutrition, harvesting, marketing, etc.

**Content:** Agriculture

**Population:** General

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## 030702 - Leadership Dynamics - Agriculture

**Grade Level:** 9 - 12

**Credits:** 1/2 - 1

**Description:** This course is designed to assist students with developing skills needed to be successful leaders and responsible members of society. This student will develop personal attributes and social skills. Emphasis will be placed on interpersonal skills, team building, communication, personal development and leadership. This course will include opportunities for students to apply their knowledge.

**Content:** Leadership Dynamics

**Population:** General

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Due to the large number of certificates permitted to teach this course, no certificates are listed. Please check the certificate permissions on the EPSB website to verify a teacher's permission to teach this course.

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## 030711 - Agriscience

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes the science of the Agricultural food, fiber and natural resources industries.

**Content:** Agriculture

**Population:** General

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## 030714 - Principles of Agri-Science & Technology, Grade 8

**Grade Level:** 8 - 8

**Credits:** 0

**Description:** A foundational course describing the principles, theories and science of the Agricultural food, fiber natural resources industries.

**Content:** Agriculture

**Population:** General

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## 030715 - Principles of Agri-Science & Technology, Grade 9

**Grade Level:** 9 - 9

**Credits:** 1

**Description:** A foundational course describing the principles, theories and science of the Agricultural food, fiber natural resources industries.

**Content:** Agriculture

**Population:** General

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## 030717 - Agriscience Exploration Grade 6-8

**Grade Level:** 6 - 8

**Credits:** 0

**Description:** A beginning course that describes the science of the Agricultural food, fiber and natural resource industries.

**Content:** Agriculture

**Population:** General

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## 030721 - Agriculture Communications

**Grade Level:** 9 - 12

**Credits:** 1

**Description:** A course that describes theories, principles and the practice of sound communication skills, including writing, public speaking, non-verbal communication. Includes TV, radio, print, and internet media.

**Content:** Agriculture

**Population:** General

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## 030771 - Small Animal Technology

**Grade Level:** 9 - 12

**Credits:** 1-2

**Description:** A course that describes the theories, principles, and science of small animals, including pets, nutrition, health, reproduction, training, etc.

**Content:** Agriculture

**Population:** General